

NARRATIVE CRITERIA

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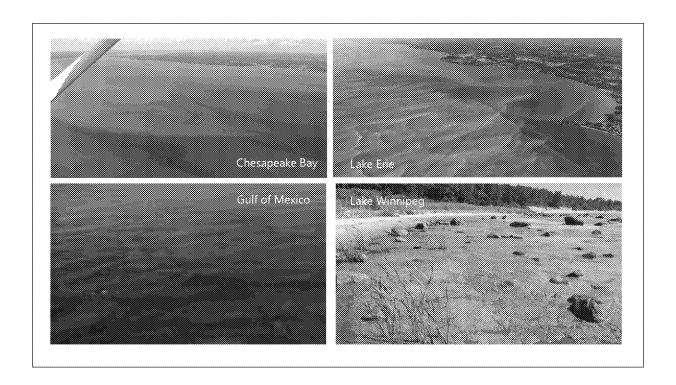
Free from nutrients¹ attributable to municipal, industrial, or other discharges or agricultural practices, in concentrations or loadings which will cause accelerated eutrophication² resulting in the objectionable growth of aquatic vegetation or algae or other impairments to the extent that it threatens public health or welfare or impairs present or future beneficial uses.

Dakota



"HOUSTON, WE HAVE A PROBLEM"

- 50% U.S. streams have medium to high levels of N and P;
- Lakes and reservoirs 5 million acres impaired;
- 78% of assessed coastal waters are impacted by nutrient pollution;
- Drinking water violations have doubled in the past 8 years due to N
- The occurrence and severity of nuisance algal blooms is on the rise; and
- Algal toxins have potentially serious human health and ecological effects.

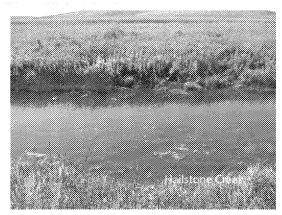


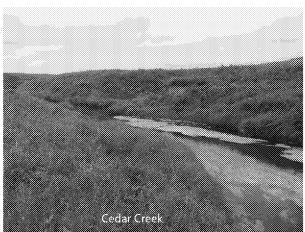
RIVERS

NUTRIENTS: 50 Miles 6

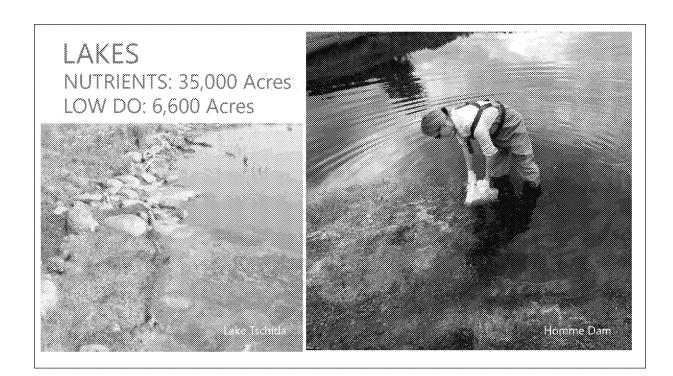
LOW DO: 410 Miles

BIOLOGICAL: 2,109 Miles









2016: 15 Lakes

2017: 16 Lakes

2018: 19 Lakes

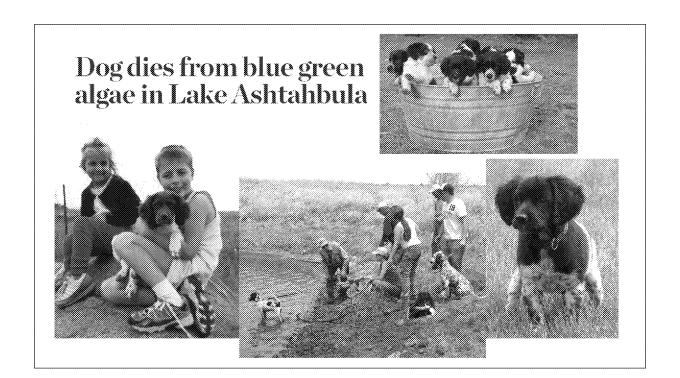
2019: 18 + 3 Lakes



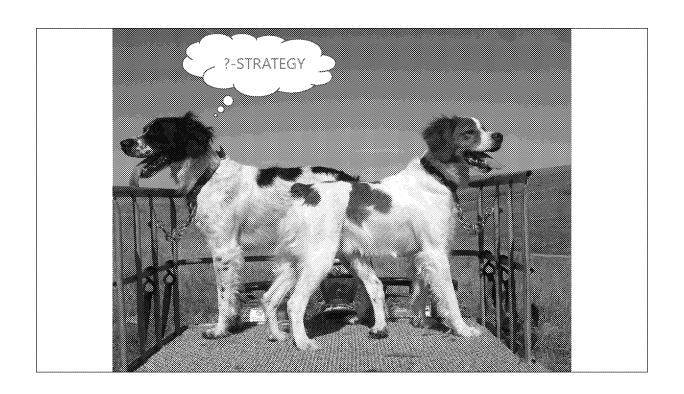


Dog dies from blue green algae in Lake Ashtahbula

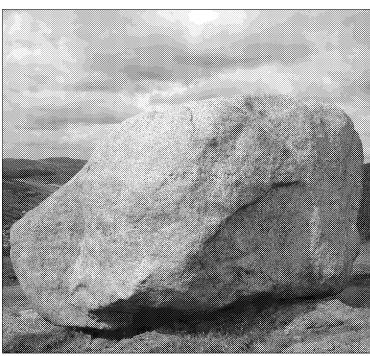
NORTH Dakota Be Legendary.







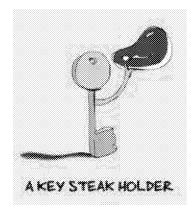
☐Lawsuits regarding nutrients (e.g., criteria, TN permits)	1DLs,
☐Ever increasing number of waterbodies with larger blooms and cyanotoxin risks	blue-green
□Impacts to Lake Winnipeg in the Red River Basin	asin and Gulf
☐Response to Nancy Stoner memo dated Mare	ch 16, 2011
	NORTH
	Dakota Be Legendary."



EPA is a partner
One-size-fits-not desirable/necessary
Supports states rights to protect waters
Technical and \$ Assistance
Flexible
Requires Key elements in state programs

NUTRIENT REDUCTION STRATEGY

- ☐ INITIATED IN NOVEMBER 2012
- ☐ STAKEHOLDER DRIVEN
- ☐ 35 MEMBER PLANNING TEAM
- ☐ 5 WORKGROUPS
 - 1) Prioritization
 - 2) Criteria
 - 3) Point Sources
 - 4) Agricultural & Nonpoint Sources
 - 5) Education & Outreach





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	CORE COMPONENTS
	□ NUMERIC CRITERIA &
	□ NARRATIVE CRITERIA
	NORTH Dakota 8- Lagendary.

NARRATIVE CRITERIA

beneficial uses.

Free from nutrients¹ attributable to municipal, industrial, or other discharges or agricultural practices, in concentrations or loadings which will cause accelerated eutrophication² resulting in the objectionable growth of aquatic vegetation or algae or other impairments to the extent that it threatens public health or welfare or impairs present or future

Dakota



DEFINITIONS ADDED

¹Nutrients are defined as chemical elements, primarily nitrogen and phosphorus, which are critical to the growth of aquatic plants and animals.

²Eutrophication is defined as the process of enrichment of rivers, stream, lakes, reservoirs and wetlands with nutrients needed to maintain primary production.



PUBLIC WAS UNHAPPY

History Care

The DEQ is a "Rogue Agency" "Untrustworthy" "[Standards Written to]... "Accommodate a politician, developer, out-of-state corporations, friends, relatives, political donors etc, this is not acceptable and any reference to this type of activity must be removed.



PUBLIC MOSTLY UNHAPPY WITH DEFINITIONS

"...define nutrients and eutrophication. Both of these definitions avoid some of the real consequences of nitrogen and phosphorus entering bodies of water.

Eutrophication is the primary cause of "algae blooms" or "dead zones" in bodies of water



PUBLIC MOSTLY UNHAPPY WITH DEFINITIONS

"Many states are trying to install buffer strips near rivers, streams, and lakes to prevent contamination of fertilizer nutrients, but your definitions lead to the conclusion that these elements are important to the bodies of water. These definitions must be removed from the document because they are misleading."



PUBLIC MOSTLY UNHAPPY WITH DEFINITIONS

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Stating that "eutrophication means the process of enrichment of rivers, streams, lakes, reservoirs, and wetlands with nutrients needed to maintain primary production" is avoiding the problem





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OPINION

July 27, 2018



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